

## SL400 Personal Noise Dosimeter

For employees that are exposed to loud noise, sound level monitoring is essential to determine what protective measures are required. Perform OSHA and IEC Noise accumulation surveys to determine total sound exposure over an 8-hour period. The SL400 is a compact, lightweight Dosimeter with USB interface designed to test noise exposure and provide noise surveys for compliance with OSHA, MSHA, DOD, ACGIH, and ISO standards. Includes PC software to control setup and retrieve stored events or analyze real-time measurements.

### Applications:

- Personal accumulated noise exposure measurement
- Workplace noise assessment
- OSHA and other regulatory agency compliances



### Features

- Measures frequency weighted noise exposure and peak (C, Z) sound level
- Datalogs up to 999,999 readings when used as a sound level meter with sampling times between 1 second and 24 hours
- Sound level mode: displays sound level, min/max, time-averaged sound level (Leq), peak, and sound exposure level (SEL)
- Adjustable Criterion Level, Exchange Rate, & Threshold
- One user-defined measurement setup
- Optional 94dB calibrator to perform "before" and "after" calibration checks per ANSI standards
- USB interface with Windows<sup>®</sup> 7 and 8 compatible software to control setup and retrieve stored events or analyze real-time measurements
- Complete with belt clip, clip-on 0.5" (12.7mm) microphone with 32" (81.3cm) cable and windscreen, 9V battery, software, USB cable, and carrying case

### Specifications

Standards	IEC61252-1993, IEC67672-1-2003, ANSI S1.25-1992, ANSI S1.4-1983, ANSI S1.43-1997
Ranges (Accuracy)	30 to 90 dB, 50 to 110dB; C, Z Peak: 70 to 140dB / C and Z Peak: 90 to 143dB (Accuracy: $\pm 1.4\text{dB}@94\text{dB } 1\text{kHz}$ )
Frequency Weighting	A, C, Z
Response Rate	Fast, Slow, Impulse
Bandwidth	20Hz to 8kHz
Memory	Dose: 10,000 points/SLM: 999,999 points
Criterion Level / Threshold Level	30 to 140dB in 0.1dB steps / 30 to 140dB in 0.1dB steps
Exchange Rate	3, 4, 5 or 6 dB
Measurement Duration	5, 10, 15, or 30 minutes; 1, 2, 4, 8, 10, 12, or 24 hours
Measurement Modes	%Dose, Lxmax, Lxyp, Lxmin, Lxeq, SEL (LAE), PeakMAX, LAVG, TWA, LEP, LN%
	SPL, Lxmax, Lxyp, Lxmin, Lxeq, SEL (LAE) PeakMAX
Dimensions/Weight	4.2 x 2.6 x 1.3" (107 x 65 x 33mm) - exclude connector on top/ 7oz. (198g) include batteries and microphone cable

### Ordering

SL400 **N**\*..... Personal Noise Dosimeter

**N**\* Indicates product available with optional Limited NIST for Certificate of Traceability to A and C Weighting. Order with -NISTL after part number for product plus Calibration Certificate.



UPC Code: 793950474006

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